

GAALSHIP® HF 250 A FR WSR

Pairs/triples twisted cables for telecommunication and instrumentation, armoured, fire resistant and water spray resistant



ELETTROTEK KABEL® GAALSHIP® HF 250 A FR WSR



Applications:

Fire resistant and water spray instrumentation cables for fixed electrical installations aboard ships, screened against electromagnetic interferences, suitable for the signal and telecommunication of safety-fire devices. These cables prevent the cable short-circuit due to water sprays of Fire Fighters' hydrants used during the fire, allowing the continuous operation of these devices.

Construction:

Conductor:	Plain annealed copper or Tinned annealed copper conductor Cl. 2, acc. to IEC 60228, DIN VDE 0295
Insulation:	MICA glass tape + GAALTHERM® 597
Cores color:	Pair: black- light blue Triple: black- light blue - brown
Stranding:	Core laid-up together in pairs/triples
1st Wrapping:	Glass fiber tape
2nd Wrapping:	Two plain annealed copper / polyester tapes
3rd Wrapping:	Glass fiber tape
Armour:	Plain or tinned annealed copper wires braid acc. to IEC 60092-350
Outer sheath:	Halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 A FR WSR, cross nominal section sqmm, 150/250 V, part n°, IEC 60092-376, IEC 60332-3-22, IEC 60331, BS 8491, production plant, batch n°, production date, CE RoHS, progressive meter marking.

Technical data:

Nominal voltage:	150/250 V
Temperature range:	-40°C up to +90°C
Installation temp.:	-5°C
Short circuit temperature:	+250°C
Min. bending radius:	4 x Outer diameter

Type Approvals/Certificates:

RINA / RINAMIL (Registro Italiano Navale)
BV (Bureau Veritas)
LR (Lloyd's Register)
ABS (American Bureau of Shipping)
RMRS (Russian Maritime Register of Shipping)
Other approvals on request

Resistance:



Fire resistant acc. to:
IEC 60331-21,
IEC 60331-2 (under 20 mm Ø),
IEC 60331-1 (over 20 mm Ø),
EN 50200 Annex E Water Spray Test,
BS 8491 Water Jet Test



Flame and fire retardant acc. to:
IEC 60332-1-2,
IEC 60332-3-22



Halogen free acc. to:
IEC 60754-1/2



Smoke emission properties acc. to:
IEC 61034-1/2

Features:

Sheathing and insulating materials acc. to IEC 60092-360
Design guidelines acc. to IEC 60092-350/376
Choice and installation of electric cables acc. to IEC 60092-352
Cold bend test at low temperatures
acc. to CSA C22.2 No. 0.3-09 (-40°C)
Cold bend impact at low temperatures
acc. to CSA C22.2 No. 0.3-09 (-35°C)
On request class 5 conductor acc. to IEC 60228

GAALSHIP® MARINE CABLES

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Part no.	No. of pairs/triples/quads x cross section n x mm ²	Outer sheath color	Outer diameter ca.mm			Cable weight approx. kg/km	Max. resistance of conductors at 20°C (Ohm/km)	Current rating in open air at 45°C (A)	Short circuit rating I sec. (kA)
			Min.	Nom.	Max.				
11220CGX052M05	5 x 2 x 0,5	Orange	17,9	19,4	20,9	463	41,6	5	0,07
11220CGX012M07	1 x 2 x 0,75	Orange	9,8	11,3	12,8	177	26,3	12	0,11
11220CGX022M07	2 x 2 x 0,75	Orange	11,2	12,7	14,2	217	26,3	10	0,11
11220CGX042M07	4 x 2 x 0,75	Orange	17	18,5	20	426	26,3	7	0,11
11220CGX052M07	5 x 2 x 0,75	Orange	18,7	20,2	21,7	510	26,3	7	0,11
11220CGX072M07	7 x 2 x 0,75	Orange	19,8	21,8	23,3	578	26,3	7	0,11
11220CGX102M07	10 x 2 x 0,75	Orange	24,4	26,4	27,9	825	26,3	7	0,11
11220CGX142M07	14 x 2 x 0,75	Orange	27,6	30,1	32,6	1010	26,3	6	0,11
11220CGX242M07	24 x 2 x 0,75	Orange	36	38,5	41	1658	26,3	5	0,11
11220CGX372M07	37 x 2 x 0,75	Orange	42,7	45,2	47,7	2227	26,3	5	0,11
11220CGX012M10	1 x 2 x 1	Orange	10,2	11,7	13,2	190	19,3	15	0,14
11220CGX032M10	3 x 2 x 1	Orange	16,2	17,7	19,2	390	19,3	10	0,14
11220CGX042M10	4 x 2 x 1	Orange	17,9	19,4	20,9	473	19,3	8	0,14
11220CGX072M10	7 x 2 x 1	Orange	20,9	22,9	24,4	651	19,3	8	0,14
11220CGX012M15	1 x 2 x 1,5	Orange	11,1	12,6	14,1	223	12,9	19	0,21
11220CGX022M15	2 x 2 x 1,5	Orange	13,3	14,8	16,3	321	12,9	16	0,21
11220CGX042M15	4 x 2 x 1,5	Orange	19,8	21,3	22,8	570	12,9	11	0,21
11220CGX052M15	5 x 2 x 1,5	Orange	21,8	23,3	24,8	690	12,9	11	0,21
11220CGX072M15	7 x 2 x 1,5	Orange	23,4	25,4	26,9	808	12,9	11	0,21
11220CGX082M15	8 x 2 x 1,5	Orange	27,5	29,5	31	968	12,9	11	0,21
11220CGX102M15	10 x 2 x 1,5	Orange	28,9	30,9	32,4	1162	12,9	11	0,21
11220CGX122M15	12 x 2 x 1,5	Orange	30,9	33,4	35,9	1268	12,9	11	0,21
11220CGX192M15	19 x 2 x 1,5	Orange	37	39,5	42	1875	12,9	9	0,21
11220CGX012M25	1 x 2 x 2,5	Orange	12	13,5	15	262	8,2	27	0,36
11220CGX013M07	1 x 3 x 0,75	Orange	10,3	11,8	13,3	188	26,3	10	0,11
11220CGX073M07	7 x 3 x 0,75	Orange	22,8	24,3	26,3	747	26,3	7	0,11
11220CGX073M10	7 x 3 x 1	Orange	24	25,5	27,5	844	19,3	8	0,14

Other dimensions and colors available on request.